

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 03S1135P	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/JP 03/13064	International filing date (day/month/year) 10/10/2003	(Earliest) Priority Date (day/month/year) 25/10/2002
Applicant  CASIO COMPUTER CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. The figure of the drawings to be published with the abstract is Figure No.**

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

4  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PC 03/13064

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B01J19/00 B01J19/24 C01B3/32 C01B3/58

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 B01J C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 200 536 B1 (TONKOVICH A L, ROBERTS G L, WANG YONG ET AL) 13 March 2001 (2001-03-13)  the whole document	1-12, 15, 16, 18-22, 25-28
X	US 6 447 736 B1 (AUTENRIETH RAINER ET AL) 10 September 2002 (2002-09-10)  column 3, line 39 -column 4, line 54 figure 1	1-9, 15, 16, 18-22, 27, 28
X	US 6 428 758 B1 (SCHUESSLER MARTIN, MEGEDE DETLEF ZUR ) 6 August 2002 (2002-08-06) column 5, line 3 -column 6, line 8 column 7, line 27 - line 34 figure 1	1-6, 9, 13-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

18 February 2004

Date of mailing of the international search report

25/02/2004

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## INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 03 082460 A (CASIO COMPUTER CO LTD ; NAKAMURA OSAMU (JP); TAKEYAMA KEISHI (JP);) 9 October 2003 (2003-10-09) the whole document -----	1-28

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

P 03/13064

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6200536	B1	13-03-2001	EP 0991465 A1 JP 2002514296 T WO 9900186 A1	12-04-2000 14-05-2002 07-01-1999
US 6447736	B1	10-09-2002	DE 19754012 A1 DE 59807376 D1 EP 0921584 A2 JP 3114097 B2 JP 11263601 A	10-06-1999 10-04-2003 09-06-1999 04-12-2000 28-09-1999
US 6428758	B1	06-08-2002	DE 19720294 C1 EP 0878442 A1	10-12-1998 18-11-1998
WO 03082460	A	09-10-2003	JP 2004006265 A CA 2447853 A1 WO 03082460 A1	08-01-2004 09-10-2003 09-10-2003